

ABSTRACT OF THE DISCLOSURE

A catalyst for deep desulfurization of a mineral oil corresponding to kerosene, having a nickel component of nickel and nickel oxide, zinc oxide, and aluminum oxide. The contents of the nickel component, and the aluminum oxide and the zinc oxide are defined. The nitrogen monoxide adsorption of the catalyst and the specific surface area are defined. The catalyst is obtained by carrying out an activation treatment. A process for producing the catalyst is given and, a method of deep desulfurization is given.